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| **Unit Plan Title: Chemical Systems and Equilibrium** | | **Group Member Names** |
| **Sections** | **Brief Description** | **Member Name** |
| Big ideas with guiding questions | Organized presentation of the big ideas, essential questions, guiding questions and overall expectations for this unit. | All |
| Unit Plan | Timing and sequence for concepts within this unit and a rationale behind this organization. | Tamara (Timing and sequence)  Dan (Rationale write up) |
| Minds On Activity | A short video : <http://www.youtube.com/watch?v=Lkt0NkEK8CA> accompanied by either a blank sheet of paper for students to write down thoughts and ideas or prompts (a student work sheet or oral/written questions). Could do the actual demo if the materials are readily available. | Tamara |
| Misconceptions (4-5) | Outline of student misconceptions that are common to this unit and possible ideas as to how to shift this understanding. | Dan |
| Activity 1 | Under the bold and visionary leadership and tutelage of the instructor, students will explore key concepts and ideas concerning chemical equilibrium, including an exciting math filled extension! This inquiry based approach will rely on a Gizmo. | Dan |
| Activity 2 | Quiz review game (Jeopardy) to be used in preparation for quiz #1 of the unit plan. | Tamara |
| STSE blog series | Blog series assignment created looking at the buffer system in aspirin and other tablets. Each member of the group will complete the assignment and post their work to the blog. | Chris |
| Lab experiment | Lab covering Le Chatelier’s principle plus pre and post lab questions and teacher resources and instructions for implementation. | Tamara |
| Summative Unit Test | Two copies of the unit test (one with suggested answers and a marking scheme) | Chris |